

REMARKS

Claims 1 and 3 have been amended, and claims 1-25 are pending and under consideration. Claims 1, 3 and 24 are the independent claims. No new matter is presented in this Amendment.

ALLOWABLE SUBJECT MATTER:

The instant claims 1-23 are allowed for the reason that the cited prior arts do not teach or fairly suggest the presently claimed apparatus and method wherein the apparatus comprises a liquid crystal display panel having data electrode lines allocated for three colors, a lighting device installed in the back of the liquid crystal display panel, and a control means that *'sequentially applying a single scan pulse to the scan electrode lines during a two-color driving period, in which the two color driving periods among the three color driving periods are combined and two colors are activated while the single scan pulse is applied to the scan electrode lines.'*

CLAIM OBJECTION

Claim 1 is objected to because of a minor informality.

Applicants have amended claim 1 to correct the minor informality noted by the Examiner. Accordingly, Applicants respectfully request that the objection of claim 1 be withdrawn.

Claim 3 is objected to because of a minor informality.

Applicants have amended claim 3 to correct the minor informality noted by the Examiner. Accordingly, Applicants respectfully request that the objection of claim 3 be withdrawn.

REJECTIONS UNDER 35 U.S.C. §102:

Claims 24 and 25 are rejected under 35 U.S.C. §102(b) as being anticipated by Kaneko (U.S. Patent 6,188,379 B1).

Applicants respectfully traverse this rejection for at least the following reasons.

Regarding the rejection of independent claim 24, it is noted that claim 24 recites a method of stably driving a liquid crystal display apparatus by sequentially applying a single scan pulse to scan electrode lines of the liquid crystal display apparatus by combining two color driving periods amongst a first, second, and a third color driving periods, activating two colors.

The Office Action relies on Kaneko for a teaching of the method of driving a color display system recited in claims 24 and 25, and in particular relies on FIG. 4, column 1, lines 6-12, column 4, lines 24-29 and column 7, lines 42-64.

However, a detailed review of Kaneko teaches a field-sequential type color display system capable of responding at high speed through multiplexing driving (column 4, lines 24-29). Kaneko further discloses in FIG. 4 a waveform chart showing waveforms of respective signals and optical response characteristics of the shutter unit for explaining the method of driving the field-sequential type color display system, where the common electrodes are scanned six times in the respective sub-fields. Kaneko further discloses that each sub-field comprises two fields f1 and f2 for driving the liquid crystal shutter unit by AC power, and each of the fields consists of three-subfields: fR, fG, and fB similar to the prior art (column 7, lines 42-51). Finally, Kaneko discloses that the red light source signal Lr turns on for the duration of the sub-field fR and it turns off in the other sub-fields fG and fB. Likewise, the green light source signal Lg turns on for the duration of the sub-field fG and turns off in the other sub-fields fB and fR. The blue light source signal Lb turns on for the duration of the sub-field fB and it turns off in the other sub-fields fR and fG (column 7, lines 58-64).

In other words, Kaneko discloses a method of driving a display apparatus along the lines of the conventional art, where each frame is divided into a plurality of sub-fields, and each sub-field is divided into red, green, and blue driving subfields, making it necessary to have three driving periods, one for each sub-field. Therefore as in the prior art, in Kaneko the width of the scan pulse is not sufficient to stably drive the display apparatus.

Contrary to Kaneko, independent claim 24 recites combining two color driving periods amongst the three driving periods, and sequentially applying a single scan pulse to scan electrode lines of the liquid crystal display apparatus, activating two colors.

Accordingly, Applicants respectfully assert that the rejection of claim 24 under 35 U.S.C. § 102(b) should be withdrawn because Kaneko fails to teach or suggest each feature of independent claim 24.

Furthermore, Applicants respectfully assert that the rejection of dependent claim 25 under 35 U.S.C. §102(b) should be withdrawn at least because of its dependence from claim 24 and the reasons set forth above, and because the dependent claim includes additional features which are not taught or suggested by the prior art. Therefore, it is respectfully submitted that claim 25 also distinguishes over the prior art.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 503333.

Respectfully submitted,

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